

WORK PLATFORMS AND SCAFFOLDS (TOWERS)

AFOSH STD 91-501, Chapter 16

Clearances

1. Do operators of aerial lifts operating near electric power lines maintain clearances as required by paragraph **16.4.3**?
2. Are operators of aerial lifts aware that the use of proximity devices does not release them from the responsibility of assuring compliance with clearances required by paragraph **16.4.3**? (Reference **16.4.4**.)

Inspection and Test Procedures

1. Are aerial ladders inspected and tested annually, and:
2. When it is known or suspected the ladder may have been loaded beyond the manufacturer's rated capacity? (Reference **16.4.5.1**.)
3. Immediately following any repair of a structural or mechanical component of the ladder assembly? (Reference **16.4.5.1**.)
4. Is Attachment 10 used as a guide by the principal operator and a qualified vehicle mechanic while performing tests or annual inspections of aerial ladders? (Reference **16.4.5.1**.)
5. Are articulating and extendible boom platforms inspected and tested annually, and: (Reference **16.4.5.2**.)
6. When it is known or suspected that the work platform may have been loaded beyond the manufacturer's rated capacity? (Reference **16.4.5.2**.)
7. Immediately following any repair of a structural or mechanical component of the boom or work platform assembly? (Reference **16.4.5.2**.)
8. Is Attachment 11 used as a guide by the principal vehicle operator and a qualified vehicle mechanic while performing tests or annual inspections of articulated and extendible boom platforms? (Reference **16.4.5.2**.)
9. Are tests and inspections recorded on AF Form 1828? (Reference **16.4.5.2**.)

Operations

1. Is the manufacturer's operator's manual for the aerial device available for use by operators, and does it contain the information outlined in paragraph **16.5.6.1**?
2. Have operators of vehicle-mounted elevating and rotating work platforms been thoroughly trained and qualified in the use of this equipment? (Reference **16.5.6.3**.)
3. Are surfaces of mobile work platforms and scaffolds protected from corrosion or other deterioration? (Reference **16.5.1.2**.)
4. Are all exposed surfaces of ladder stands, work platforms, or scaffolds free of sharp edges, burrs, or other hazardous projections? (Reference **16.5.1.5**.)
5. Is the maximum work level height of mobile ladder stands or scaffolds restricted to a level no greater than four times the least base dimension of the supporting frame? (Reference **16.5.2.1**.) **NOTE:** This level may be exceeded if design includes use of outriggers or unit is secured to fixed structure to prevent tipping and/or falling of work platform.
6. Are the supporting structures for the work levels rigidly braced? (Reference **16.5.2.3**.)
7. Are the steps of all ladder stands constructed of slip-resistant materials or covered with a slip-resistant coating? (Reference **16.5.2.4**.)
8. Is the work level platform of scaffolds extended to full width of scaffold secured to the support structure, and of sufficient strength to safely support the workload? (Reference **16.5.2.5**.)
9. Are guardrails, midrails (when required), and toeboards installed at work platform level of all scaffolding with work levels 10 feet or more above ground or floor level? (Reference **16.5.2.6**.)
10. Are scaffolds provided with a climbing ladder for access and egress? (Reference **16.5.2.7**.)
11. Do supervisors ensure that personnel are not allowed to remain on manually propelled work platforms when they are being moved from one wing of an aircraft to the other, nor to other sections of the aircraft? (Reference **16.5.2.8**.)
12. Are at least two of four casters on ladder stands or work platforms equipped with positive swivel locks or wheel locks to prevent movement? (Reference **16.5.4.2**.)
13. When a leveling elevated work platform is required, are screwjacks or other suitable means for adjusting the height provided? (Reference **16.5.4.3**.)
14. Is there a minimum of two brakes, wheel locks, or permanently installed jacks operational on all mobile work platforms? (Reference **16.5.4.4**.)

15. Is the erection of scaffold towers exceeding 50 feet in height above the base done according to the manufacturer's instructions, under supervision of a qualified professional engineer from the civil engineer's staff? (Reference **16.5.5.5.**)
16. Is the use of folding stairway scaffolding confined to sectional width of 4 ½ feet and 6 feet in length? (Reference **16.5.6.3.**)
17. Are guardrails installed before work is performed where aircraft configuration and work location permit their use? (Reference **16.4.6.18.4.**)
18. Do personnel refrain from standing on railings when performing work? (Reference **16.4.6.13.**)

Mobile Tube and Coupler Scaffolds

1. Are the materials used for the couplers of a structural type (i.e., drop-forged steel, malleable iron, or structural grade aluminum)? (Reference **16.5.7.2.**)
2. Is the use of gray cast iron prohibited from use for the coupler? (Reference **16.5.7.2.**)

Mobile Work Platforms and Ladder Stands

1. Does the base width conform to the requirements in **16.5.2.2**? (Reference **16.5.8.2**)
2. Are rigid diagonal bracings provided to the vertical members? (Reference **16.5.8.3.**)
3. Are handrails provided on mobile ladder stands that have more than four steps or 60 inches vertical height to the top step? (Reference **16.5.9.4.1.**)
4. Are protective guardrails, mid-rails (when required), and toeboards installed on mobile work platforms and ladder stands use in aircraft maintenance areas where work levels are 10 feet or higher above the ground or floor? (Reference **16.5.10.3.**)
5. Are locking pins installed and floor locks engaged before any task or work has started? (Reference **16.5.10.4.**)
6. Are reflective materials for marking mobile work platforms used to the maximum extent authorized by the appropriate TOs? (Reference **16.5.10.5.**)
7. When not being transported, are work platforms secured against movement? (Reference **16.5.10.5.**)
8. Are mobile work platforms and/or ladder stands inspected daily before use? (Reference **16.5.10.6.**)

9. Is maintenance of mobile work platforms and ladder stands accomplished as required by applicable 35-series TOs? (Reference **16.5.10.9.**)

10. Are mobile platforms and/or ladders used for fuel cell repair or other hazardous areas (such as refueling unit maintenance) equipped with bonding and/or ground connections and static license plates to permit personnel to dissipate accumulated static electricity? (Reference **16.5.10.8.**)

Towing Work Stands

1. Is the maximum speed limited to 5 MPH for tandem towed units, 10 MPH for single units? (Reference **16.5.10.7.3.1.**)

2. Are small stands such as B1, B4, or B5 units towed with a maximum of two stands on a single hitch; double hitch tow vehicles limited to four stands – two side by side with one tandem on each hitch? (Reference **16.5.10.7.3.2.**)